



# **South Carolina State Climate Office**

## ***South Carolina's Tornado Climatology 1950-2019***

Data source: NOAA's Storm Prediction Center ( [www.spc.noaa.gov/wcm](http://www.spc.noaa.gov/wcm) )

# SOUTH CAROLINA TORNADOES 1950-2019 (1037)



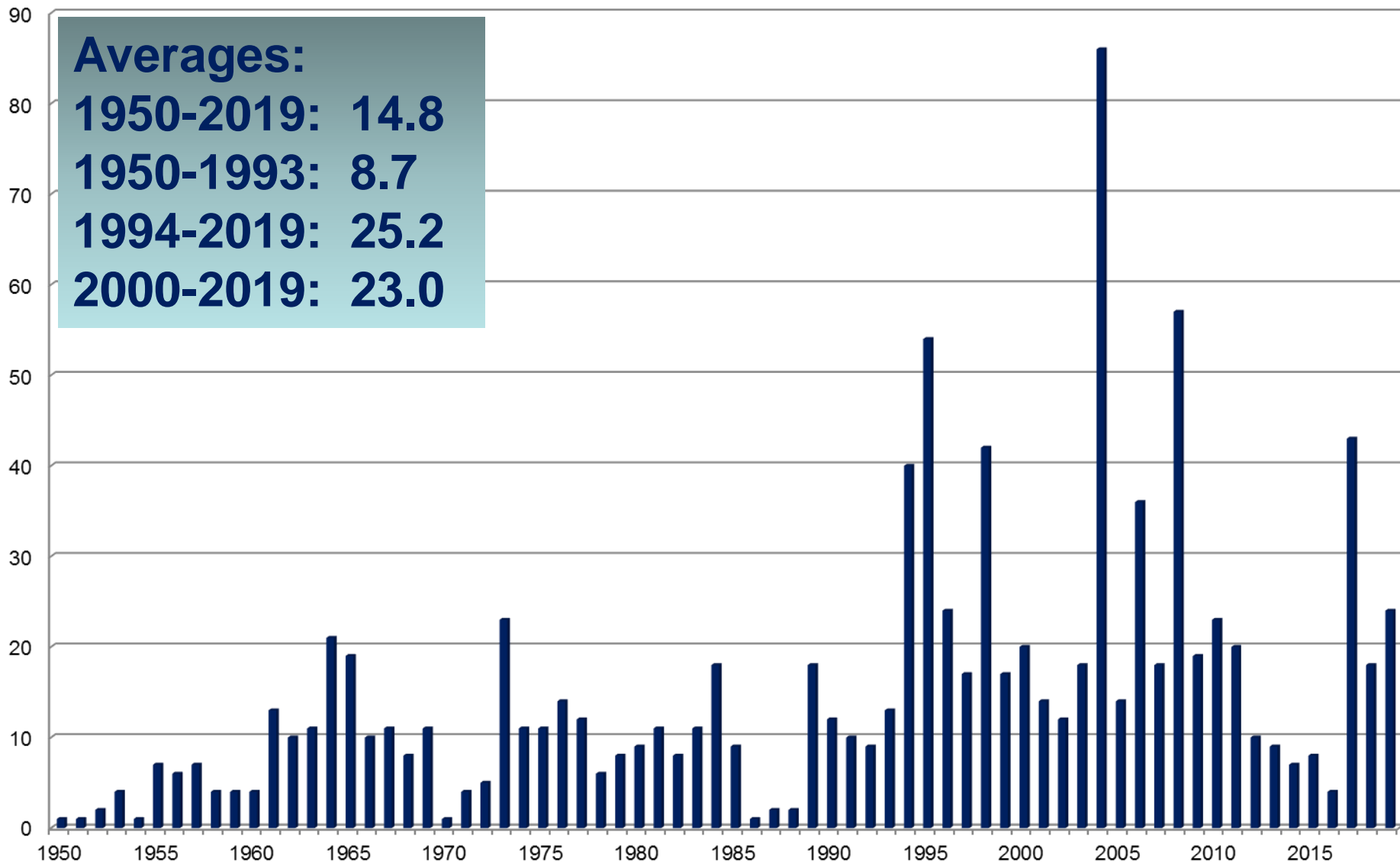
## Averages:

1950-2019: 14.8

1950-1993: 8.7

1994-2019: 25.2

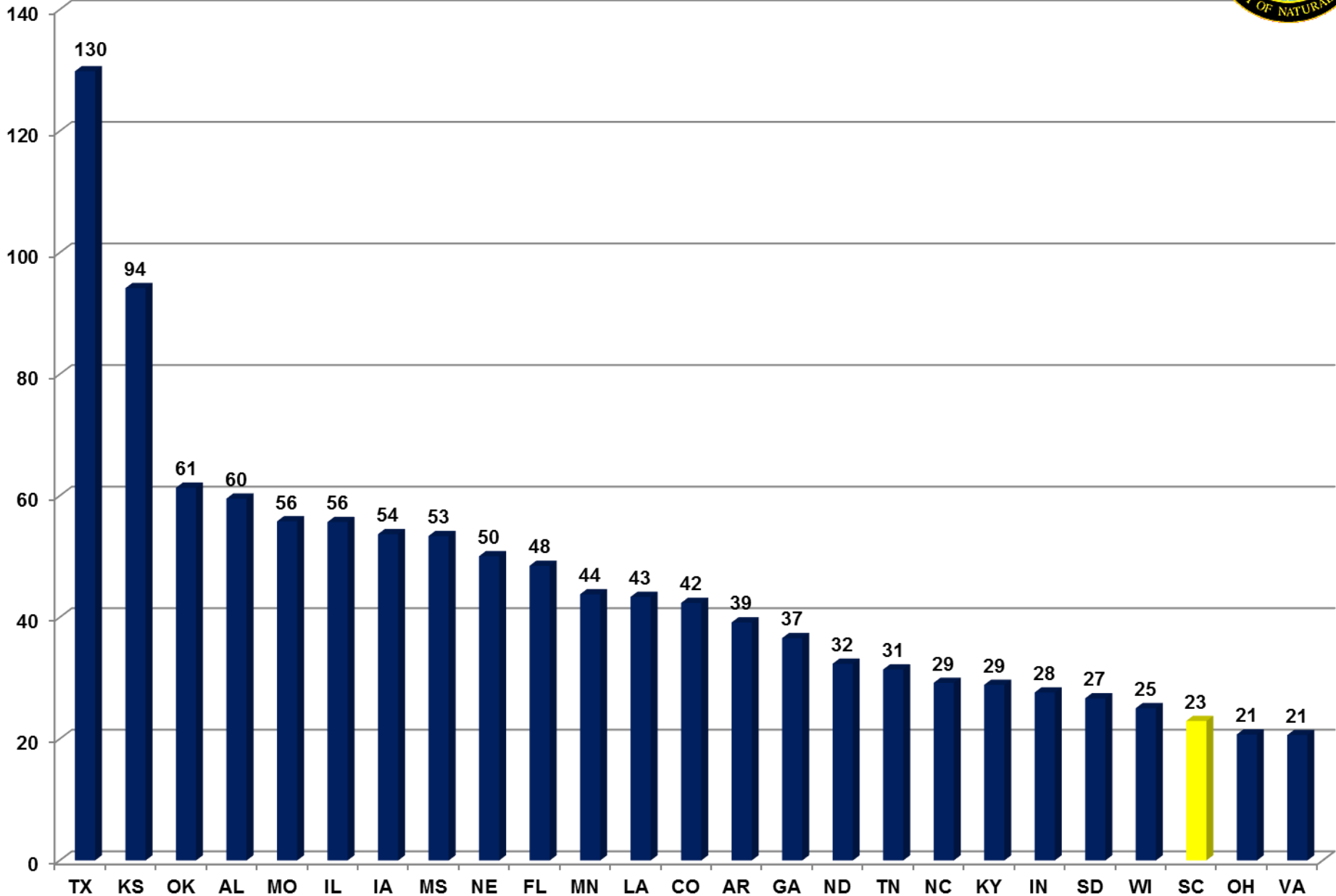
2000-2019: 23.0



# TOP 25 TORNADO STATES 2000-2019

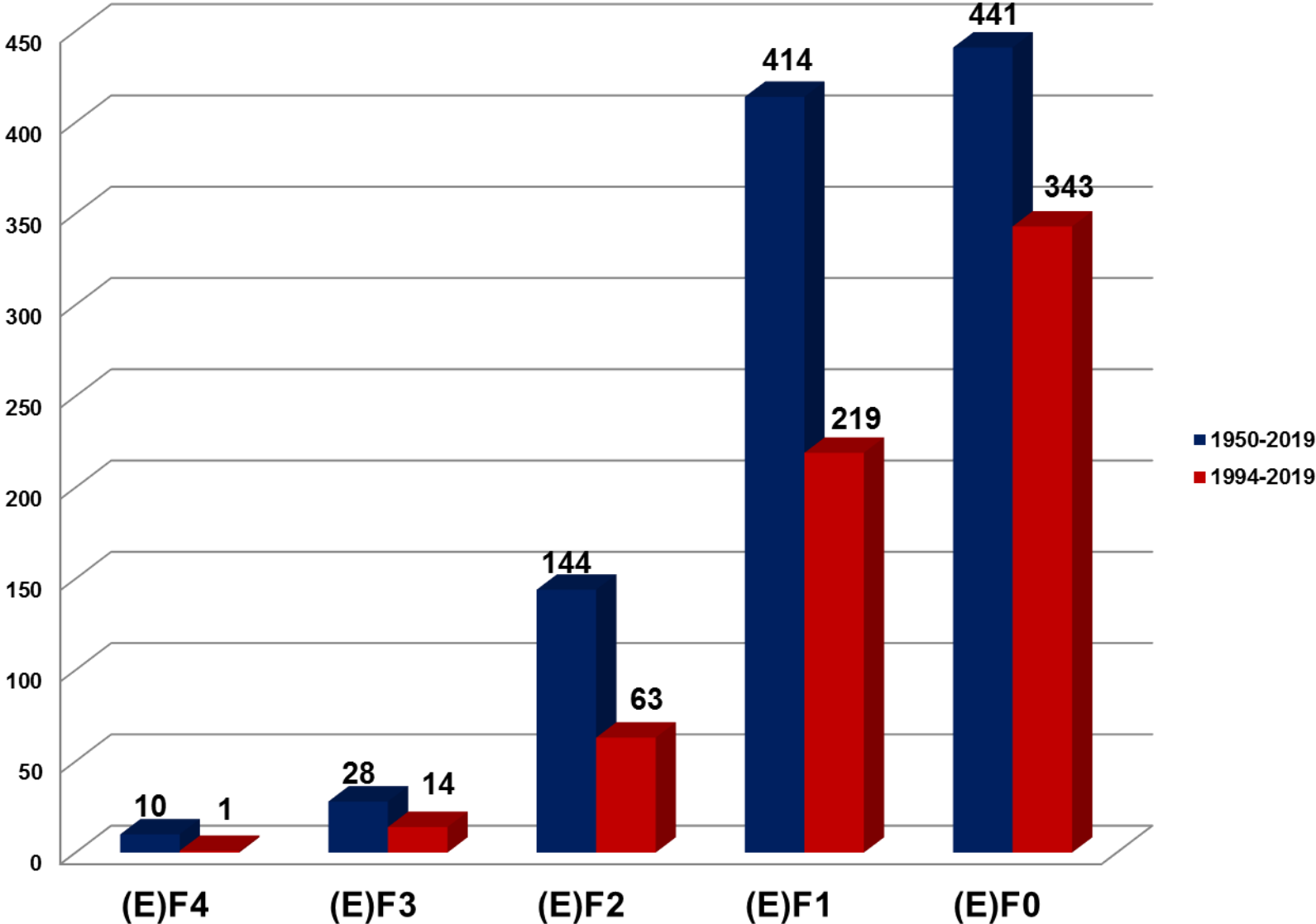


## AVERAGE TORNADOES PER YEAR





# SOUTH CAROLINA TORNADO INTENSITY 1950-2019



# EF-2,3,4 TORNADOES 1950-2019



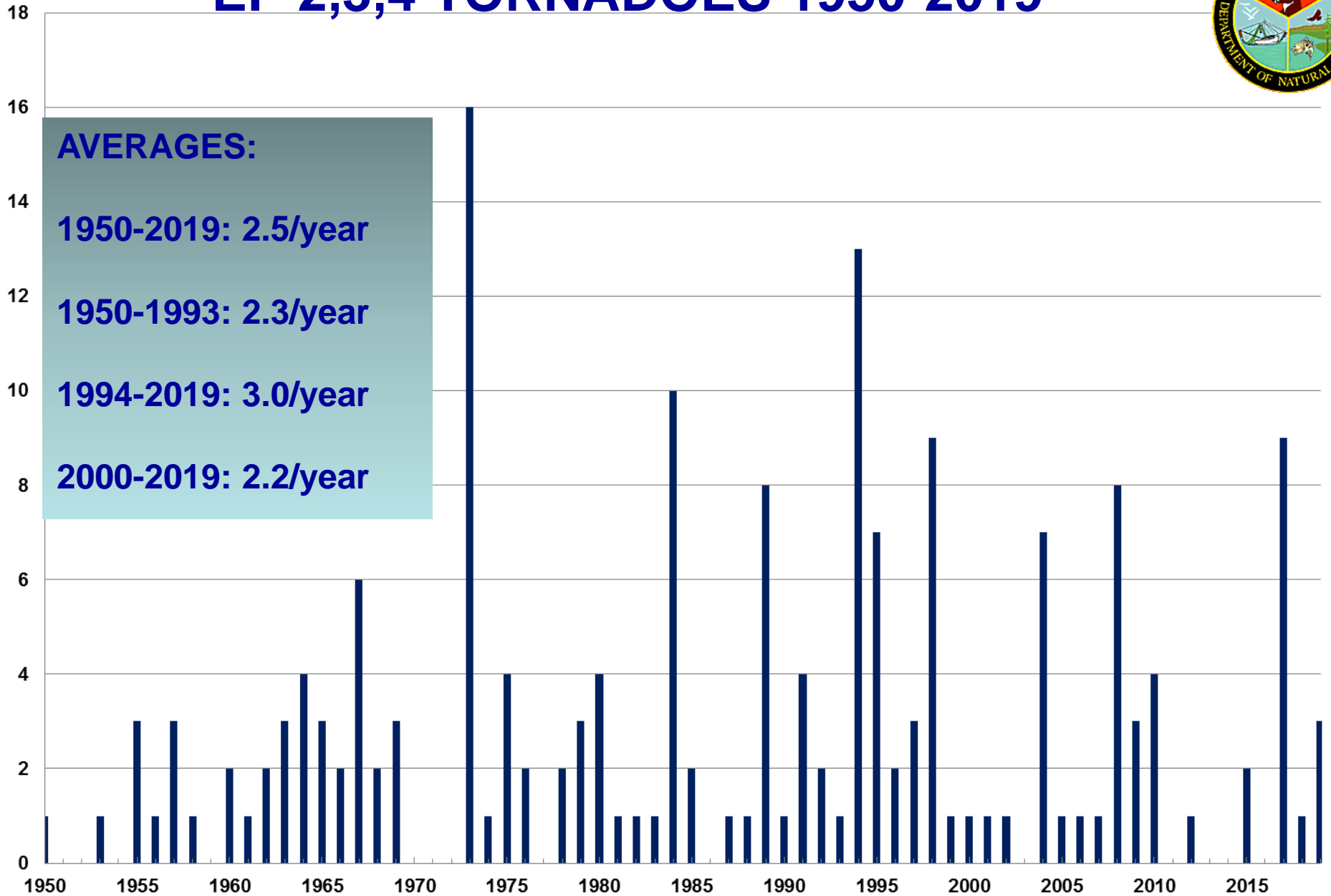
## AVERAGES:

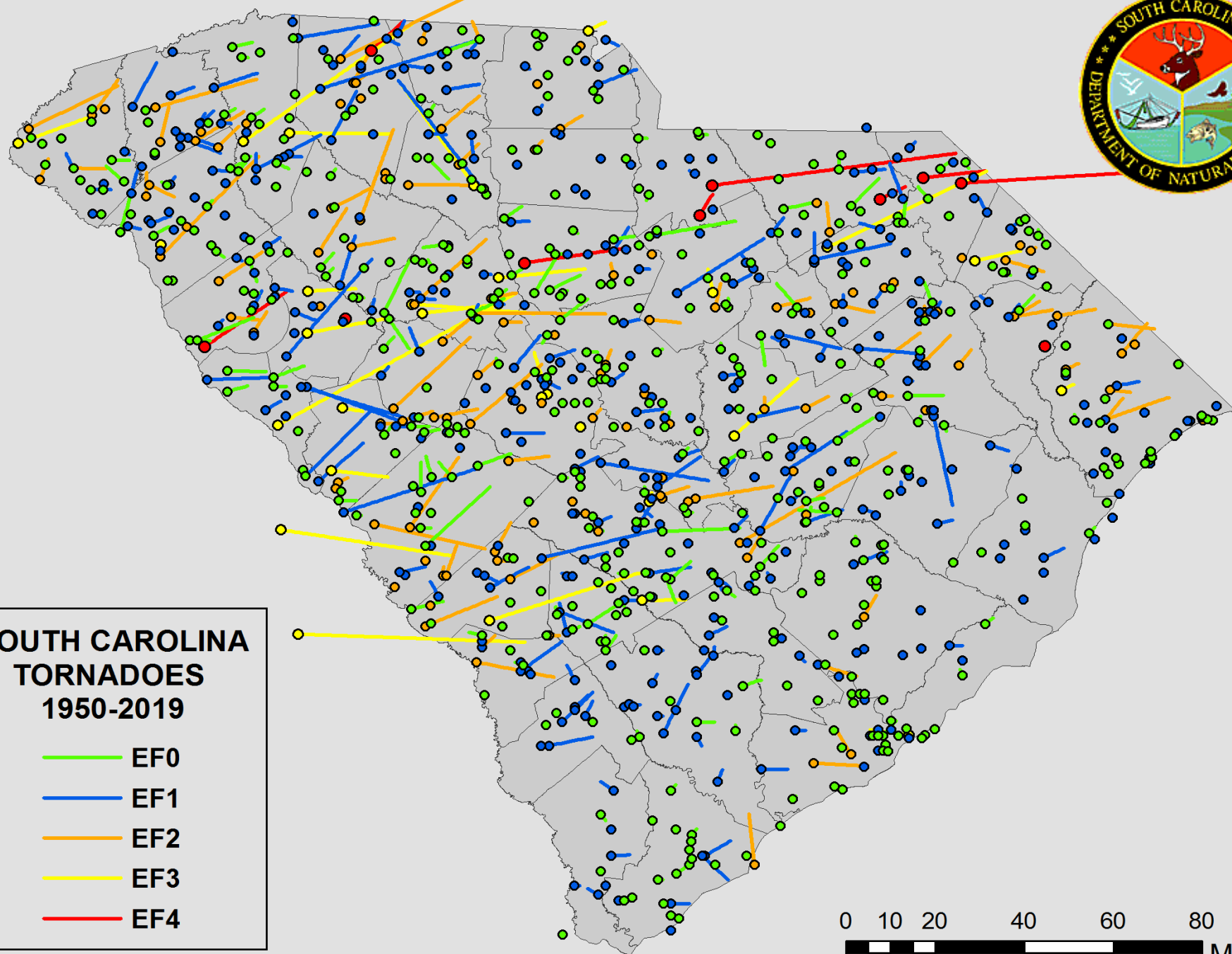
1950-2019: 2.5/year

1950-1993: 2.3/year

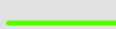

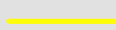
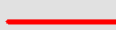
1994-2019: 3.0/year

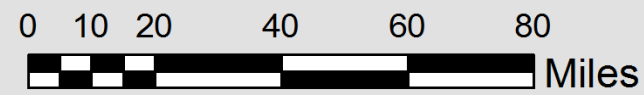
2000-2019: 2.2/year

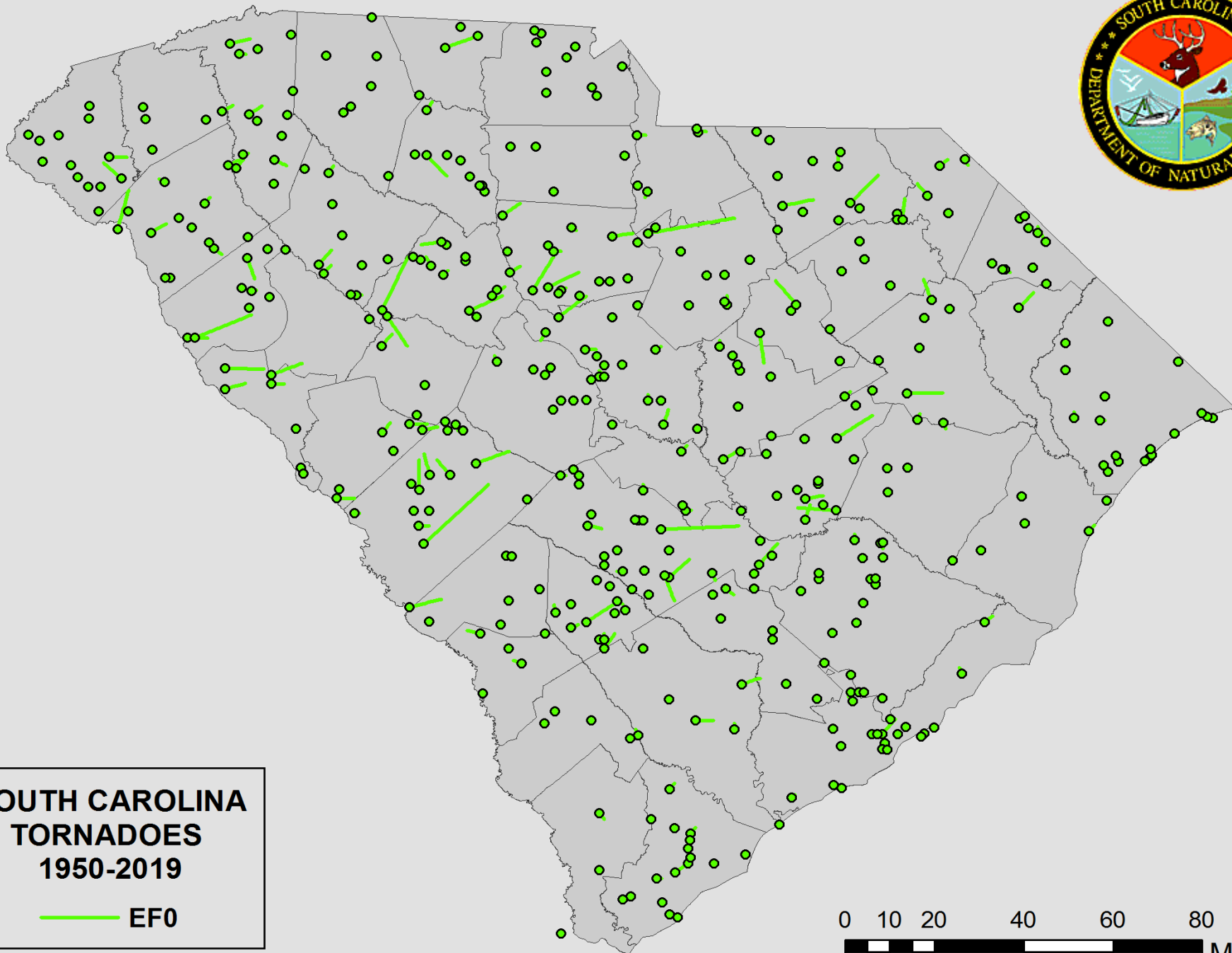




**SOUTH CAROLINA  
TORNADOES  
1950-2019**

-  EF0
-  EF1
-  EF2
-  EF3
-  EF4



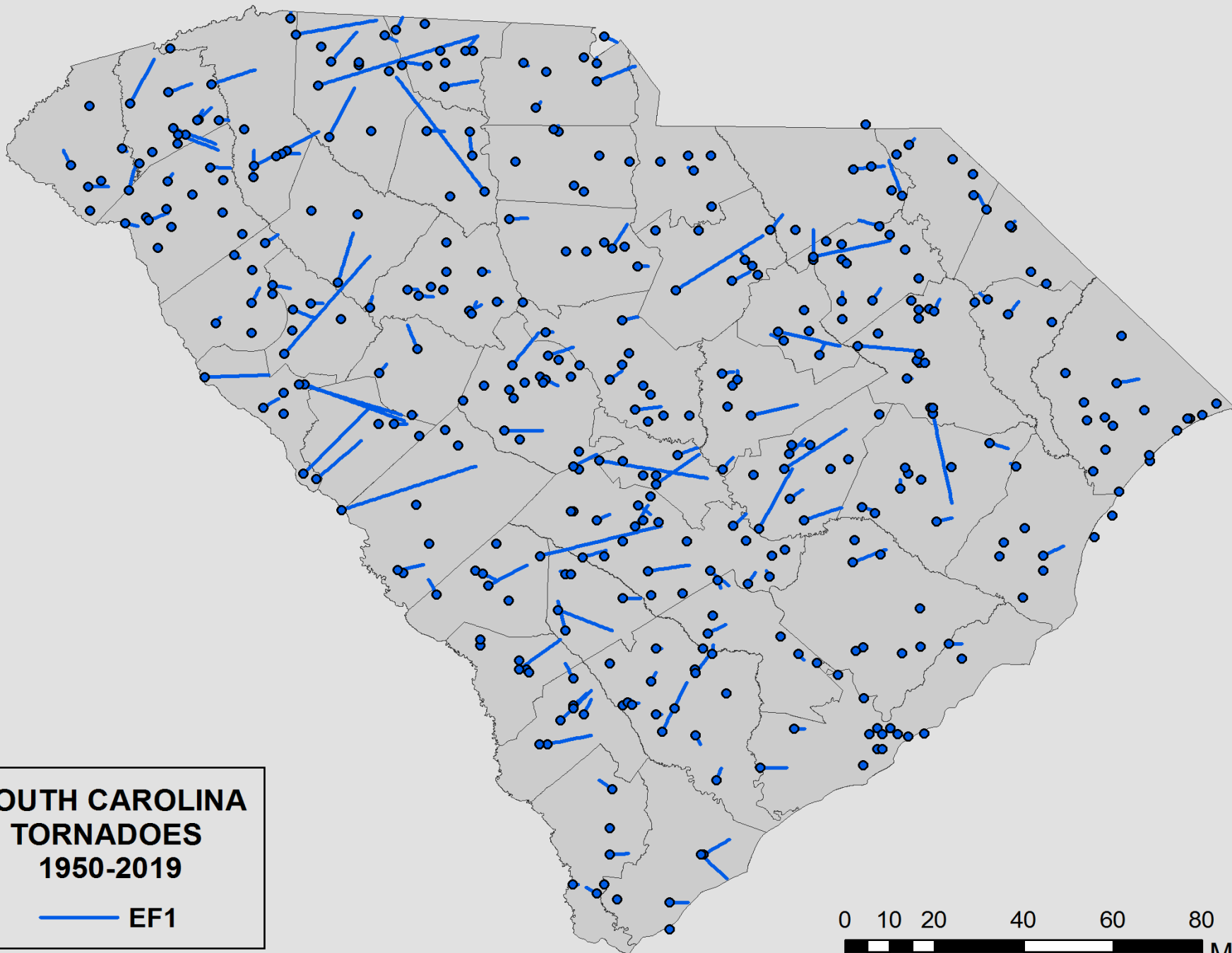


**SOUTH CAROLINA  
TORNADOES  
1950-2019**

— EF0

0 10 20 40 60 80

Miles



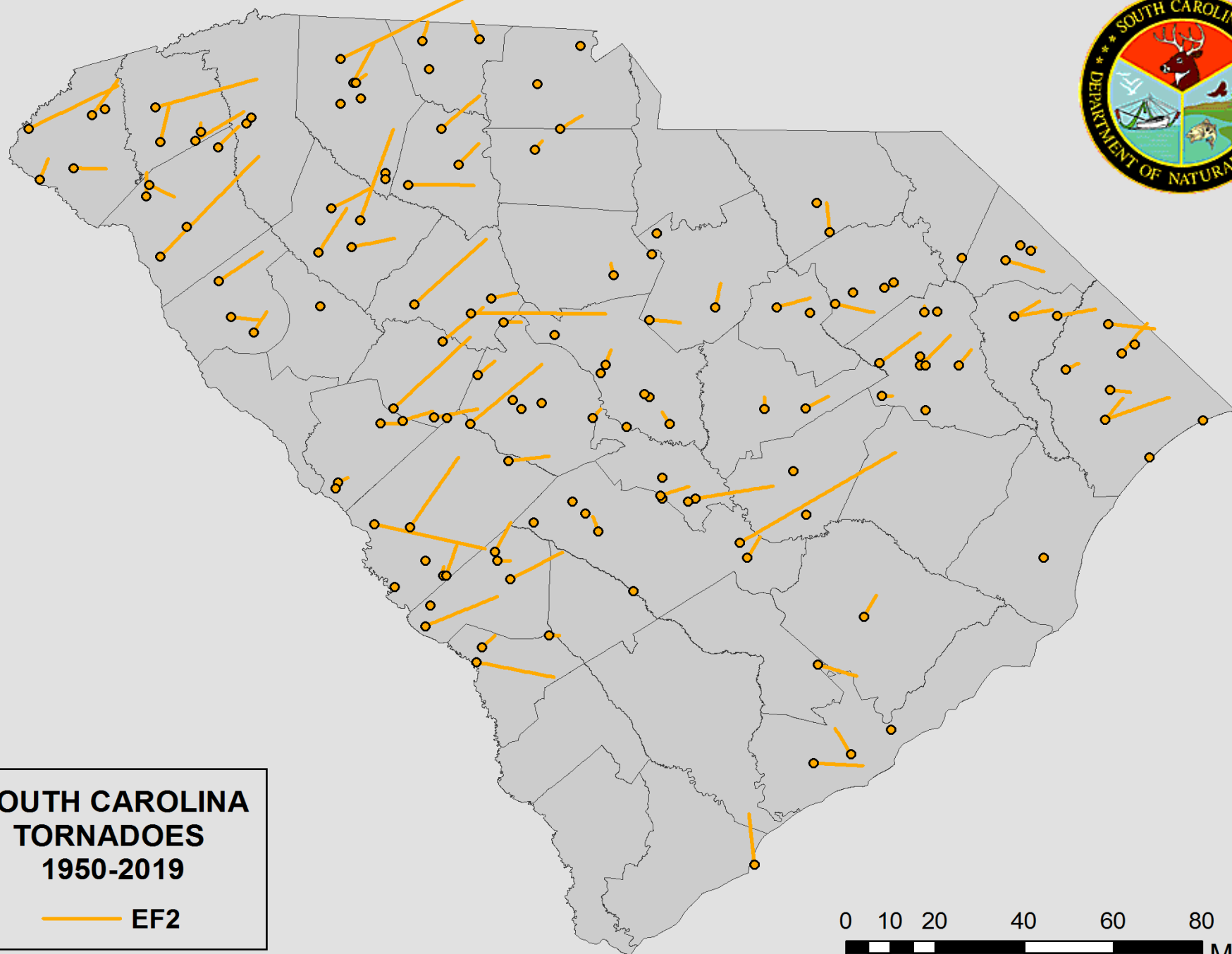
**SOUTH CAROLINA  
TORNADOES  
1950-2019**

— EF1

0 10 20 40 60 80

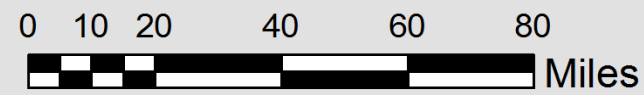
Miles

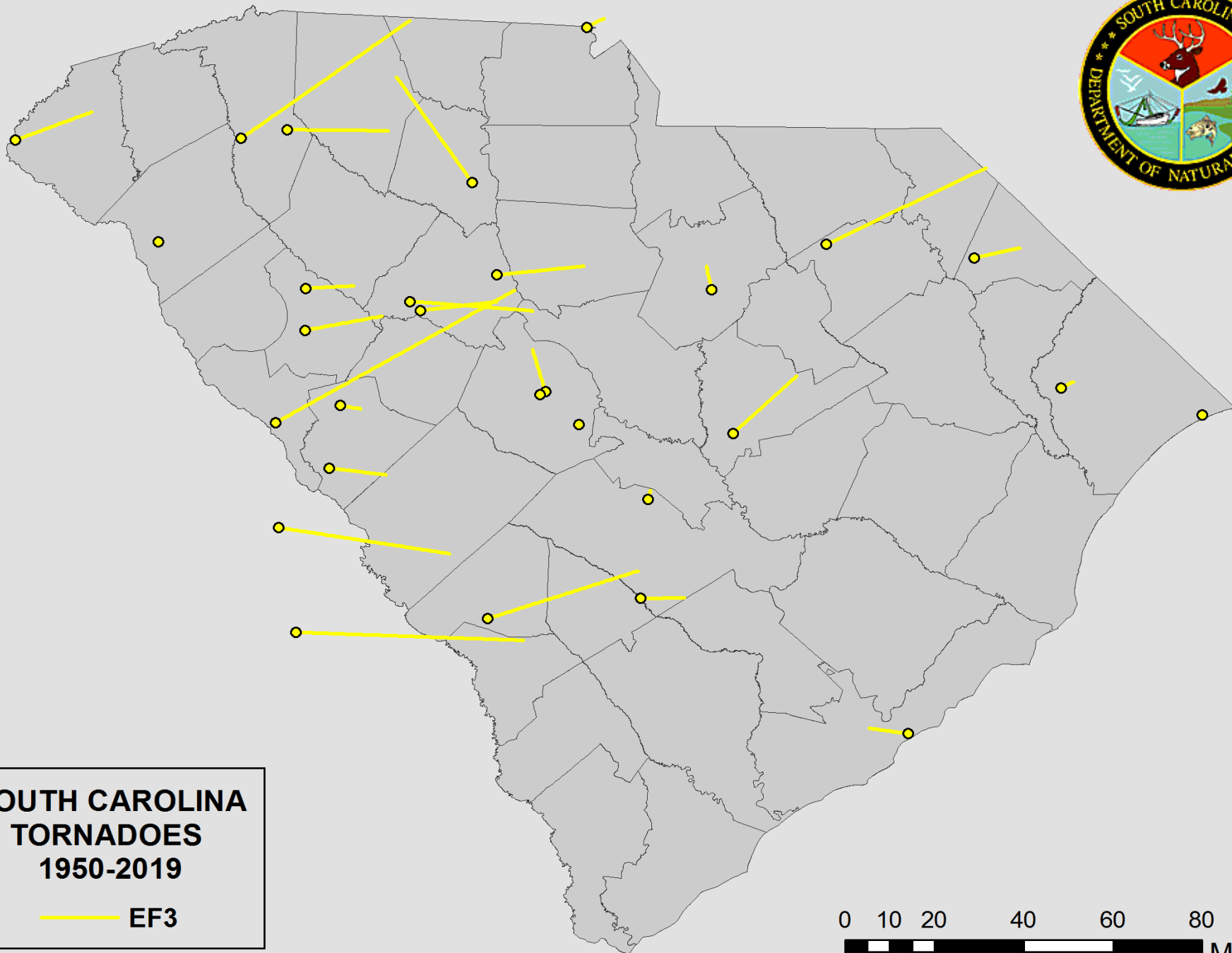




**SOUTH CAROLINA  
TORNADOES  
1950-2019**

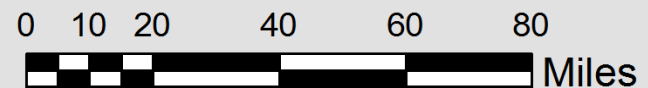
— EF2

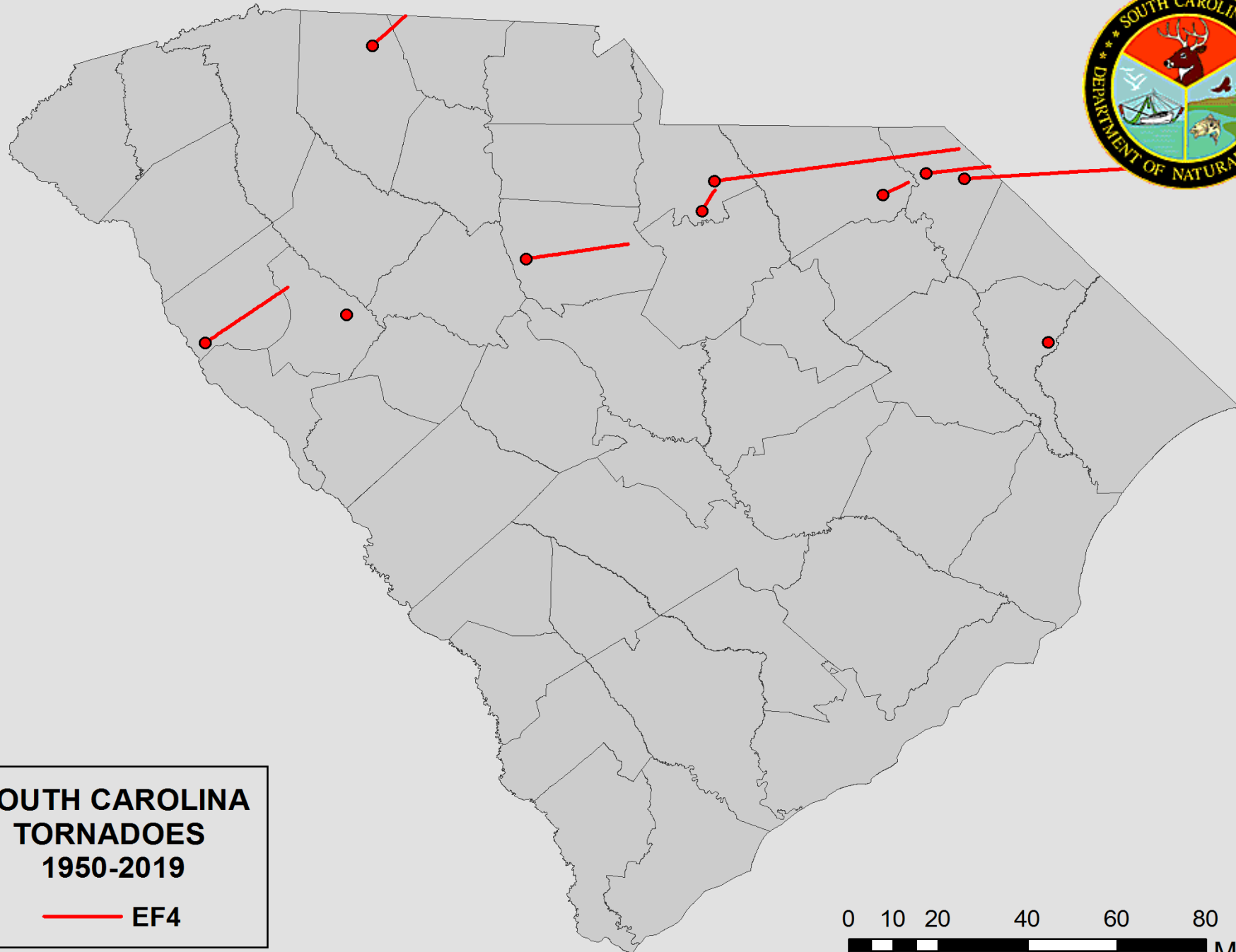




**SOUTH CAROLINA  
TORNADOES  
1950-2019**

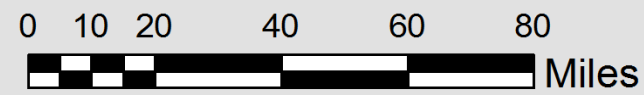
— EF3





**SOUTH CAROLINA  
TORNADOES  
1950-2019**

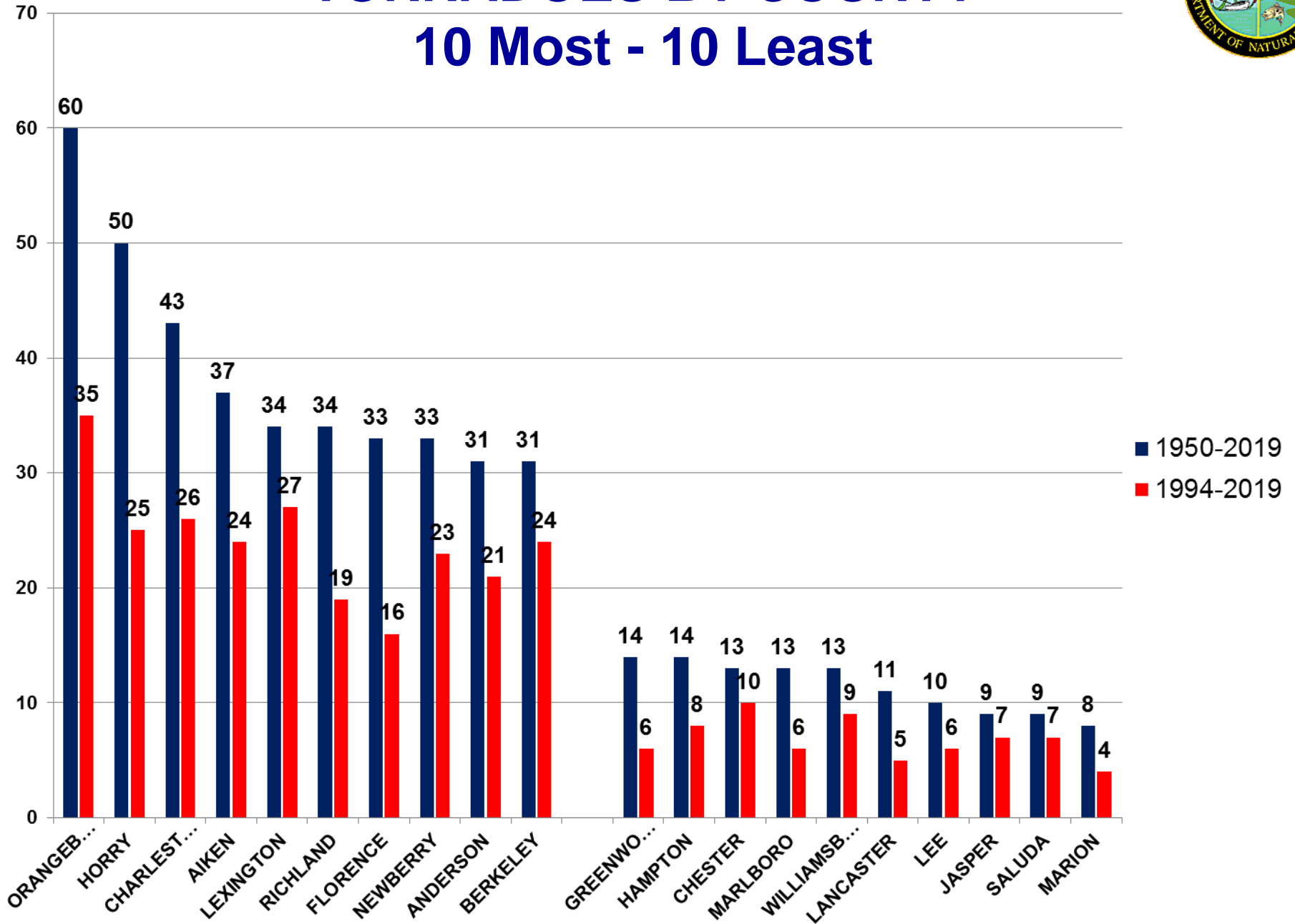
— EF4



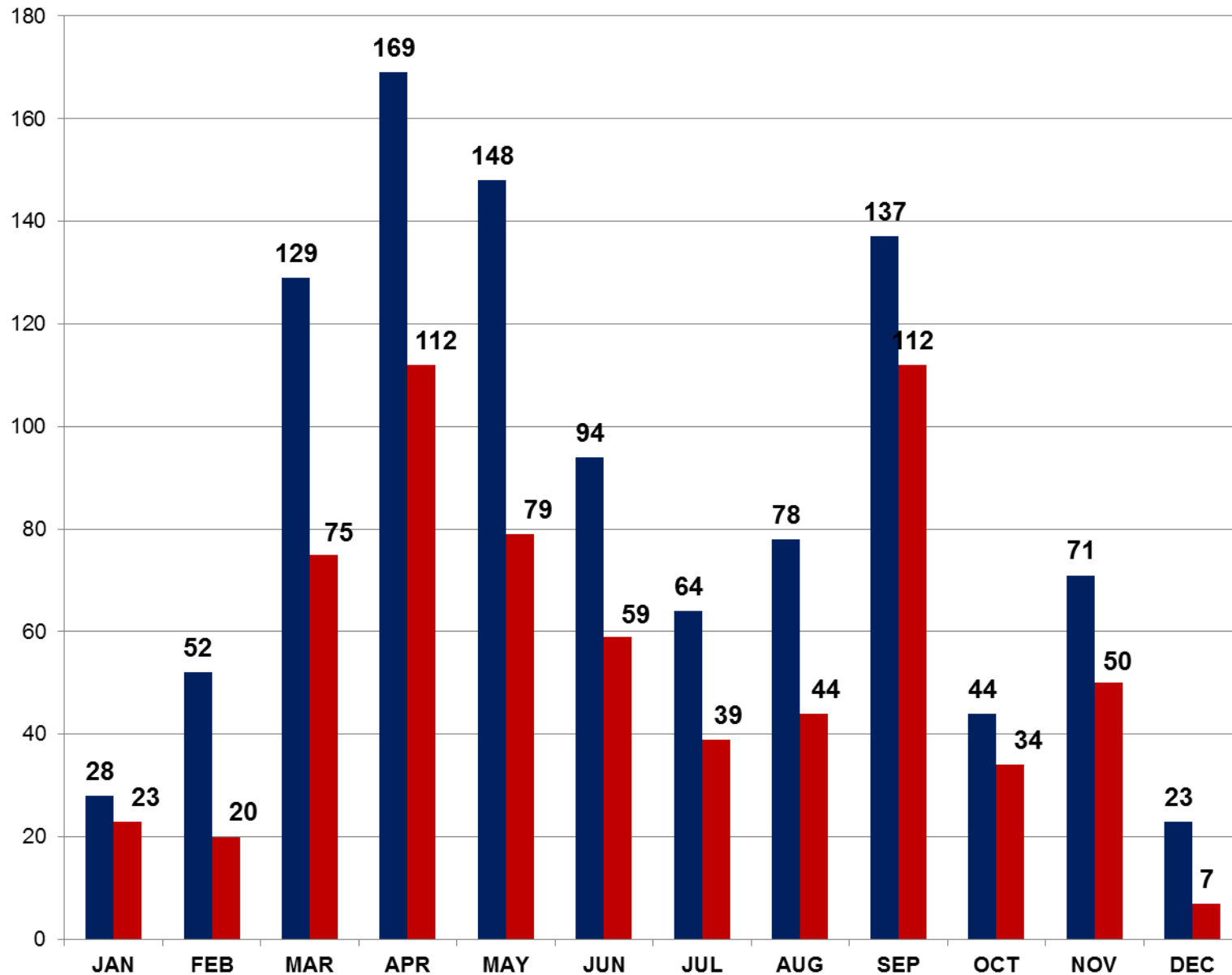


# TORNADOES BY COUNTY

## 10 Most - 10 Least

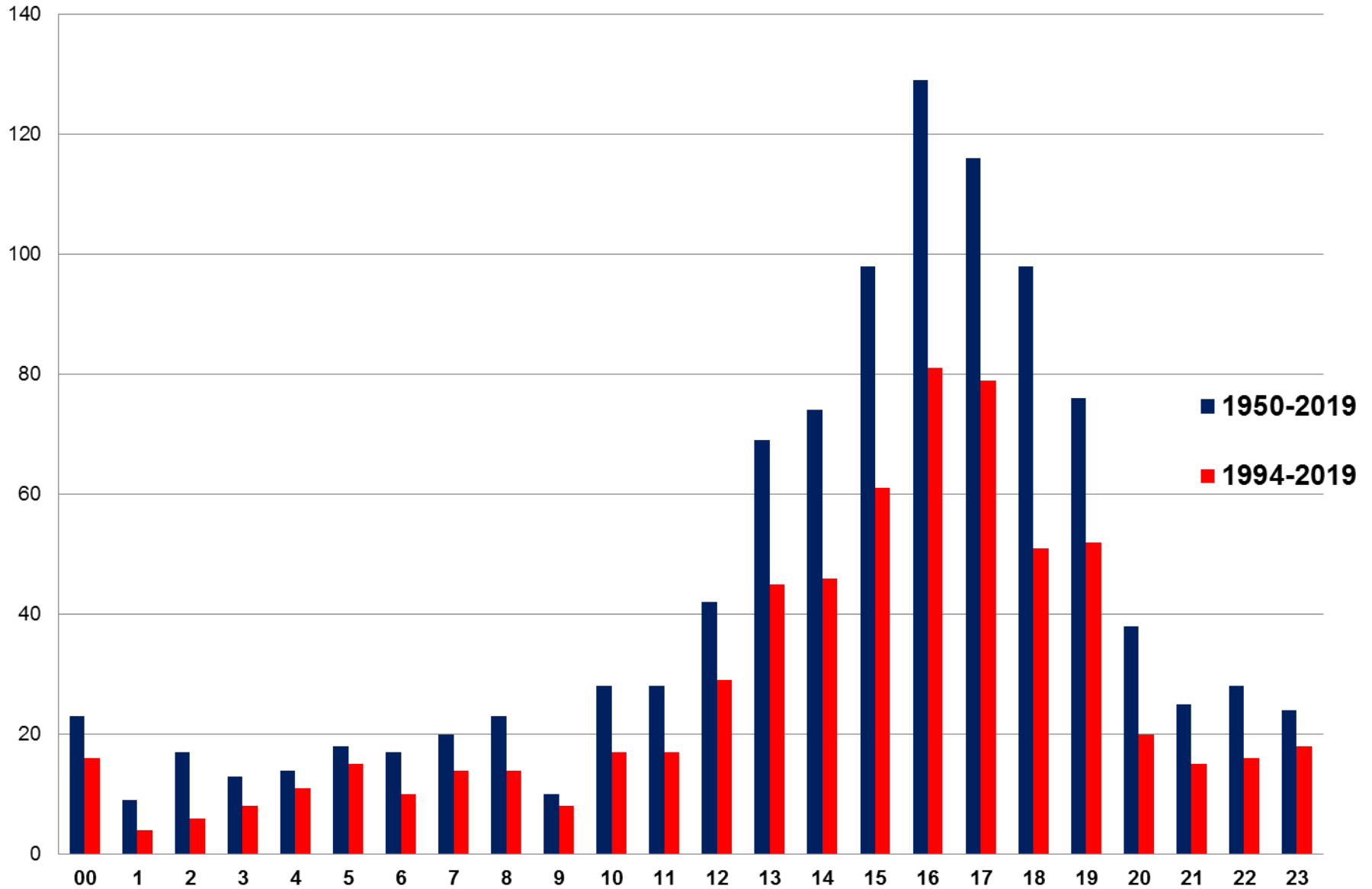


# MONTHLY TORNAOES 1950-2019



■ 1950-2019  
■ 1994-2019

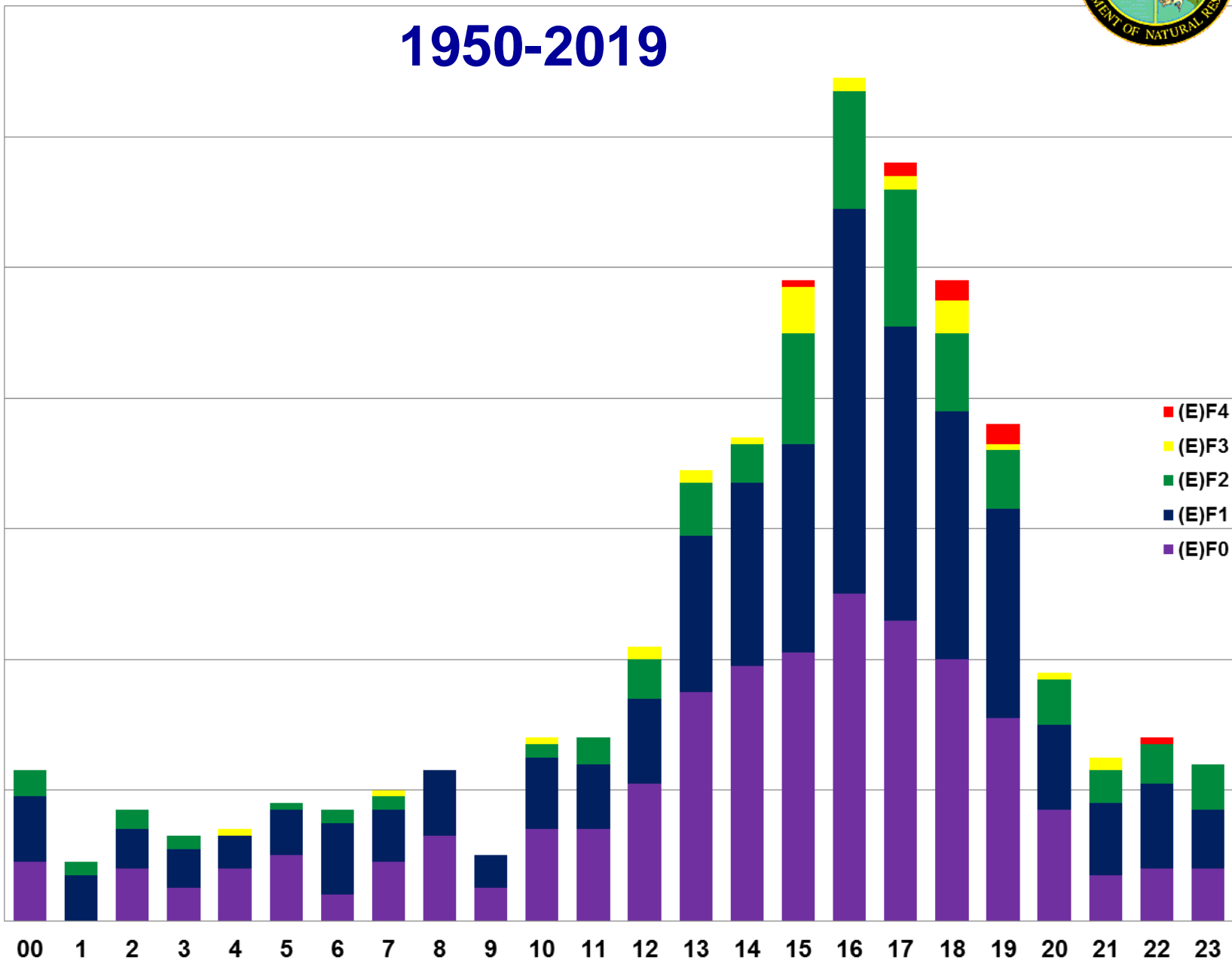
# TORNADO OCCURRENCE TIMES 1950-2019





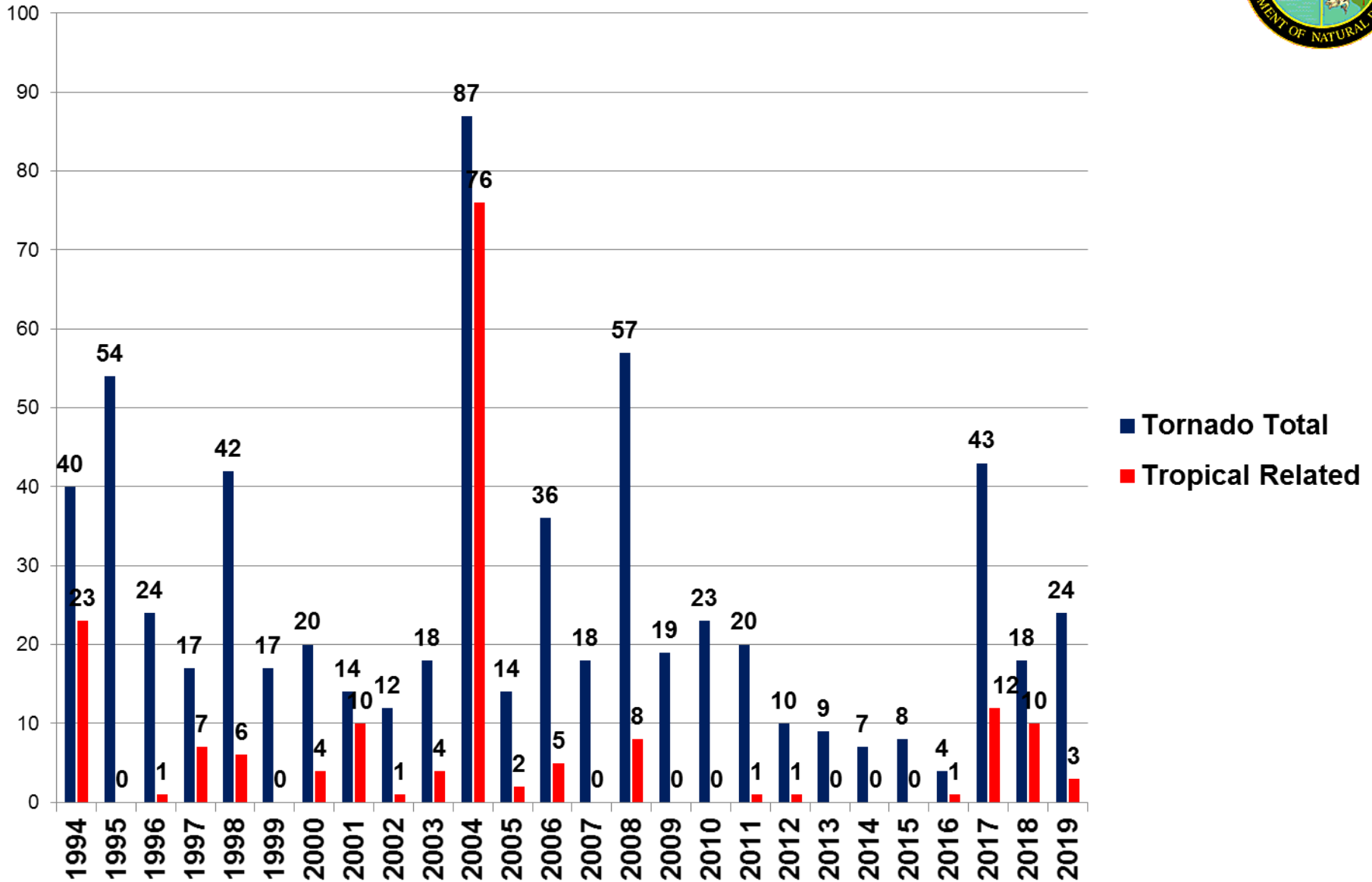
# OCCURRENCE TIME VS INTENSITY 1950-2019

140  
120  
100  
80  
60  
40  
20  
0



(E)F4  
(E)F3  
(E)F2  
(E)F1  
(E)F0

# “TROPICAL” TORNADOES 1994-2019\*



\*Tornadoes triggered by decaying tropical storms over land.



# ***South Carolina's Tornado Climatology: 1950-2019***



## **SOUTH CAROLINA TORNADO CLIMATE BASICS:**

- **Annual climate feature; Any month fair game; Spring preferred.**
- **Any hour fair game; Afternoons preferred .**
- **Any County fair game; Midlands and Piedmont preferred.**
- **EF0 and EF1 tornadoes: 81% (65-110 mph, EF4: 166-200 mph) .**
- **Short, narrow tracks, short lived (AVG: 3.4 miles, 117 yds.). But...**
  - **Longest: 62 miles, (400yds wide, F3, McCrmck-Edgfld-Slda, 11 NOV 1992)**
  - **Widest: 2600yds, (5 mile track, F4, Marlboro, 28 MAR 1984)**
- **“Tropical” tornadoes are a significant inland threat.**

Data source: NOAA's Storm Prediction Center ( [www.spc.noaa.gov/wcm](http://www.spc.noaa.gov/wcm) )